



INFLUENZA (FLU)

Interim Estimates of Populations Targeted for Influenza Vaccination from 2003 National Health Interview Survey Data and Estimates for 2004 based on Influenza Vaccine Shortage Priority Groups

	2003-04 Population (millions) (1)	Percent Vaccinated (2)	Doses
Total target	183.3	33.9%	62.2
High Risk	88.3	46.8%	41.3
≥65 years (3)	35.9	65.5%	23.5
Chronic illness (4)	42.4	34.3%	14.6
50-64 yrs	15.5	46.3%	7.2
18-49 yrs	20.0	24.2%	4.8
2-17 yrs	6.9	34.8%	2.4
Pregnant women (5)	4.0	12.8%	0.5
All children aged 6-23 months (6)	6.0	48.4%	2.9
Other Target Groups	95.0	22.0%	20.9
Health Care Personnel <65 (7)	7.0	40.1%	2.8
Household Contacts (8) of high-risk persons aged:	70.3	18.2%	12.8
50-64 yrs	12.0	38.4%	4.6
18-49 yrs	39.3	14.9%	5.9
2-17 yrs	19.1	12.3%	2.3
Healthy 50-64 year olds who are not household contacts of high-risk persons	17.7	29.8%	5.3
Total, persons aged ≥6 months	288.8	26.9%	77.8
Total, all persons	290.8		
% of U.S. pop'n in target group	63.0		
Target persons	183.3	33.9%	62.2
Non-target persons <50 years	105.5	14.8%	15.6
Priority groups for 2004-05 vaccine:	100.3		45.2
≥65 years	35.9	65.5%	23.5
Chronic illness 2-64 years	42.4	34.3%	14.6
Pregnant women	4.0	12.8%	0.5
All children 6-23 months	6.0	48.4%	2.9
Healthcare workers <65 years	7.0	40.1%	2.8
Household contacts of <6 months (9)	5.0	17.3%	0.9

Interim Estimates of Populations Targeted for Influenza Vaccination and Vaccination Rates of Those Groups From 2003 And Estimates for 2004

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- (1.) Based on 7/1/03 population estimates (Table NC-EST2003-01 – National Population Estimates – Characteristics; Population Division, U.S. Census Bureau, released 6/14/04).
- (2.) Vaccination rates in adult groups based on 2003 NHIS vaccine coverage estimates (CDC unpublished data). Vaccination rates in pediatric groups based on estimates from February 2004-05 BRFSS (MMWR 2005; 54(12):304-307).
- (3.) Includes approximately 1.6 million institutionalized persons and assumes a vaccination rate of 80% for these persons.
- (4.) Estimated number of persons at high risk for influenza complications because of chronic illness based on age-specific population estimate and estimated proportion of persons (or parents for persons aged <18 years) reporting selected medical conditions for the National Health Interview Survey (NHIS) (33.0% for persons aged 50-64, 14.9% for persons aged 18-49, 10.6% for children 2-17 years of age, and 5.2% for children 6-23 months based on NHIS 2002). Not all high-risk conditions for influenza are included in the NHIS. For persons aged 18-64, reported medical conditions included in the NHIS that were used to estimate the number of high risk persons included: ever having been told by a physician they have diabetes, emphysema, coronary artery disease, angina, heart attack or other heart conditions; being diagnosed with cancer in the past 12 months (excluding non-melanoma skin cancer) or ever being told by a physician they had lymphoma, leukemia or blood cancer; in the past 12 months being told by a physician they have chronic bronchitis or weak or failing kidneys; or reporting an asthma attack or episode in the past 12 months; several neuromuscular conditions are included in the high risk definition (stroke, senility, multiple sclerosis, Parkinson's diseases, and seizures). For children aged <18 years, high risk conditions included ever having been told by a physician of having diabetes, cystic fibrosis, sickle cell anemia, congenital heart disease, other heart disease, or current asthma, or neuromuscular conditions (seizures, cerebral palsy, and muscular dystrophy).
- (5.) Estimate of women who would be pregnant at any time during the influenza season is based on 4 million births in the U.S.
- (6.) The 2003-2004 population estimates does not include approximately 2 million children who would turn age 6 months during October through March, but would include children who would turn 24 months during this period.
- (7.) Based on self-reported occupation from the 2003 NHIS.
- (8.) Estimates of healthy household contacts based on multiplying the estimated number of persons not at increased risk, excluding health-care personnel, by the estimated proportion of such persons living in a household with at least one person at increased risk (40.3% for persons aged 50-64 years, 35.8% for persons aged 18-49 years, and 29.3% for persons aged 2-17 years). Proportions were estimated from the 2002 NHIS using Monte Carlo imputation of chronic illness and health-care occupational status; persons aged <2 years or ≥65 years were considered at increased risk. Out-of-home caretakers of children aged <2 years are not included.
- (9.) Based on NHIS 2003 estimate of average household size of 3.10 persons 2-64 years of age among those households with children <6 months.

For more information, visit www.cdc.gov/flu, or call the National Immunization Hotline at (800) 232-2522 (English), (800) 232-0233 (español), or (800) 243-7889 (TTY).